**Grade 11 Chemistry: Mole Calculation Notes December 13, 2011**

**Mole Race!!**

1. Get into groups of four.
2. Each is assigned one of the following roles:
   1. Define the given and required for the question
   2. Re-write the given and provide the formula
   3. Use the calculator to solve the problem
   4. Provide a therefore statement for the solution on the blackboard.
3. Line up in the same order (i. near the smart board, iv. Near the black board)
4. Solve for the given questions from the projector. *(Note: As soon as a question begins, there is no talking. Only way of communication is through paper and once you let the next person see your part you cannot add anymore to your sheet.)*
5. First to solve the answer gets 3 points, second gets 2 points and one point for third place.
6. For the next question, rotate so that you have a new role in the team.

Sample Question:

* Calculate the number of moles in 124.5g of oxygen gas.

Extra Practice (for homework):

* How many moles are present in 2.45 x 1023 molecules of CH4?
* How many grams are there in 3.4 x 1024 molecules of NH3?